



Electronic Industries Association

Announcement

of

Device Type Registration

Release No. 7233

March 29, 1995

The Electronics Industries Association announces the registration of the following device designations:

A34AGT11X
A34AGT13X

according to the attached data sheets. The sponsor is:

Chungwa Tube Ltd

Taipei, Taiwan

3

RESERVATION/RESIGNATION FORMAT COLOR TV PICTURE TUBE TYPE NO. A 34 A6T 13 K

Sponsor **CHUNKWA**

General

Where agency designations have not been established, defining data must be supplied.
Complete items in Section VIII only if product is integral tube/yoke combination.

I. Description and General Data

- A. Viewable Screen Diagonal * 33.5 cm.
- B. Diagonal Deflection Angle * 90 deg.
- C. Electron Gun
 - 1. Configuration * in-line.
 - 2. Type of focus * quadrapotential.
- D. Neck Diameter * 22.5 mm.
- E. Screen Structure * line.
- F. TV-Line System (525 , 625 , etc.) * 525/625
- G. Deflection Yoke Design , nonintegral
(yoke manufacturer's
model number) nonintegral .
- H. Integral (integral or external)
Magnetic Shield (Yes or No) * Yes (integral)

II. Optical Data

- A. Light Transmittance of Panel * 57 % .
 - 1. Selective Absorption (yes or no) * no .
- B. Antireflection (yes or no) * no .
- C. Phosphor Sequence or Orientation * R,G,B.
- D. Dark Surround or Matrix (yes or no) * yes .
- E. Selectively Filtered or Pigmented
Phosphor (yes or no) * yes (pigmented) .

III. Mechanical Data

- A. Tube Dimensions
 - 1. Overall length * 332.9 mm
 - 2. Neck length
(YRL to end of base) * 132.4 mm
- B. Minimum Useful Screen , projected
 - 1. Diagonal axis * 335.4 mm
 - 2. Horizontal axis * 288.8 mm
 - 3. Vertical axis * 218.6 mm
 - 4. Area * 581 sq cm
- C. Bulb Nomenclature
 - 1. Funnel (agency
designation) * EIAJ JF378AL81
 - 2. Panel (agency
designation) * EIAJ JP378AB11
 - 3. Anode contact (agency
designation) * EIA No. J1-21

III. Mechanical Data (Continued)

- D. Base and Pin Connections
(agency designation) * BB-294
- E. Pin Position Alignment (Base pin
which most nearly aligns with
anode bulb contact) * No. 9 .
- F. Anode Location (clock position,
viewed from base) * 12 o'clock .
- G. External Conductive Coating-
to-Anode Capacitance ,
including implosion * $\begin{bmatrix} 1400 \text{ max. pF} \\ 800 \text{ min. pF} \end{bmatrix}$
protection hardware * $\begin{bmatrix} 1400 \text{ max. pF} \\ 800 \text{ min. pF} \end{bmatrix}$
- H. Dimensional Details (see Tube Outline)

IV. Implosion Protection

- A. Implosion Protection May Be
Listed as One of the Following : 6
 - 1. None
 - 2. Tension Band(s)
 - 3. Filled rim
 - 4. Rimband(s) and tension band(s)
 - 5. Bonded Sheets
 - 6. Other : Shrink Band
- B. Greatest Tube Face Axes Dimensions ,
including implosion protection hardware
and excluding mounting lugs , if any
 - 1. Diagonal * 371.8 mm
 - 2. Horizontal * 316.8 mm
 - 3. Vertical * 248.5 mm
- C. Integral Mounting system (yes or no) * yes
 - 1. Mounting hole centre-
to-centre dimensions
(horizontal X vertical) * 311.4 X 243.2 mm
 - 2. Panel reference Z point to front of lug
dimension (Z points are normally
at the ends of the minimum
screen diagonals) * 34 mm
If Z point is not at screen diagonal
X coordinate _____ mm
Y coordinate _____ mm
 - 3. Hole dimension (minimum) * $\phi 10$ mm

V. X-Radiation Characteristics
Per Latest Issue of (EIA Publication TEP-94,
EIA Standards RS-501 and RS-503, or
IEC Publication 65, or EIAJ Publication ET-1012)

A. Isoexposure-Rate Limit Curves

1. For entire tube * KC-46A
2. For tube face only
3. For anode bulb contact * KC-56

B. X-Radiation Limit Curves

1. For entire tube * KC-45
2. For tube face only
3. For anode bulb contact * KC-55

or

C. Maximum X-Radiation at
Typical Anode Voltage and

Beam Current of * 0.3 mA * 0.5 mR/h .

VI. Typical Design Values

Unless otherwise specified , values are for
each gun , and voltage values are positive
with respect to (cathodes or grid No. 1).

A. Heater Voltage * 6.3 V

B. Heater Current * 300 mA

C. Anode Voltage

1. Absolute maximum value * 25 kV
2. Typical value * 22 kV

D. Grid No. * 3,5 (focusing electrode)

Voltage in Percent of Typical
Anode Voltage * 26.4 to * 29.6 %

E. Grid Nos. _____ (other high-voltage
grids) Voltage in Percent of Typical
Anode Voltage _____ to _____ %

F. Control Voltages for Visual Cutoff of
Focused Spot at Typical Anode Voltage

1. At cathode voltage
of 100V * 260 to * 570 V
2. At cathode voltage
of 150V _____ to _____ V
3. At cathode voltage
of 200V _____ to _____ V

or

1. At grid no. 1 voltage
of 100V _____ to _____ V
2. At grid no. 1 voltage
of 150V _____ to _____ V
3. At grid no. 1 voltage
of 200V _____ to _____ V

G. Maximum Ratio of Grid No. 2 Voltages,
highest gun to lowest gun for spot
cutoff at grid no. 1 of 100V _____

VI. Typical Design Values (continued)

Maximum Ratio of Cathode Cutoff
Voltages , highest gun to lowest gun
(with grid no. 2 of gun having highest
cathode voltage adjusted to give
150V spot cutoff) * 1.25

H. Ratio of Cathode Currents to Produce
a White Light Output having CIE
Coordinates of $x = 0.313$, $y = 0.329$
(or $x = 0.281$, $y = 0.311$)

1. Red/blue

- a. Minimum * 0.5
- b. Typical * 0.95
- c. Maximum * 1.35

2. Red/green

- a. Minimum * 0.4
- b. Typical * 0.6
- c. Maximum * 0.95

3. Blue/green

- a. Minimum _____
- b. Typical _____
- c. Maximum _____

VII. Drawings

A. Tube Outline with Essential
Dimensions , Tolerances , and
Pin Connections

VIII. Integral Tube/Yoke Combinations

A. Deflection Yoke Specifications

1. Horizontal coils

- a. Connection (series or parallel) _____
- b. Inductance _____ mH
- c. Resistance _____ Ω

2. Vertical coils

- a. Connection (series or parallel) _____
- b. Inductance _____ mH
- c. Resistance _____ Ω

B. Other Neck Components (specify)

C. Drawings

1. Assembly outline must meet same require-
ments as listed in items III and IV with
the addition of clearance dimensions for
the integral components .
2. Yoke connector designation
or manufacturer's number _____
3. Pin connections to yoke connector with
singal polarity indicated .
4. Minimum lead length , if any , for yoke
connection (show location on outline) .

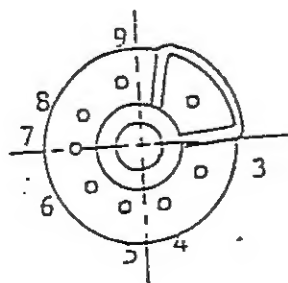
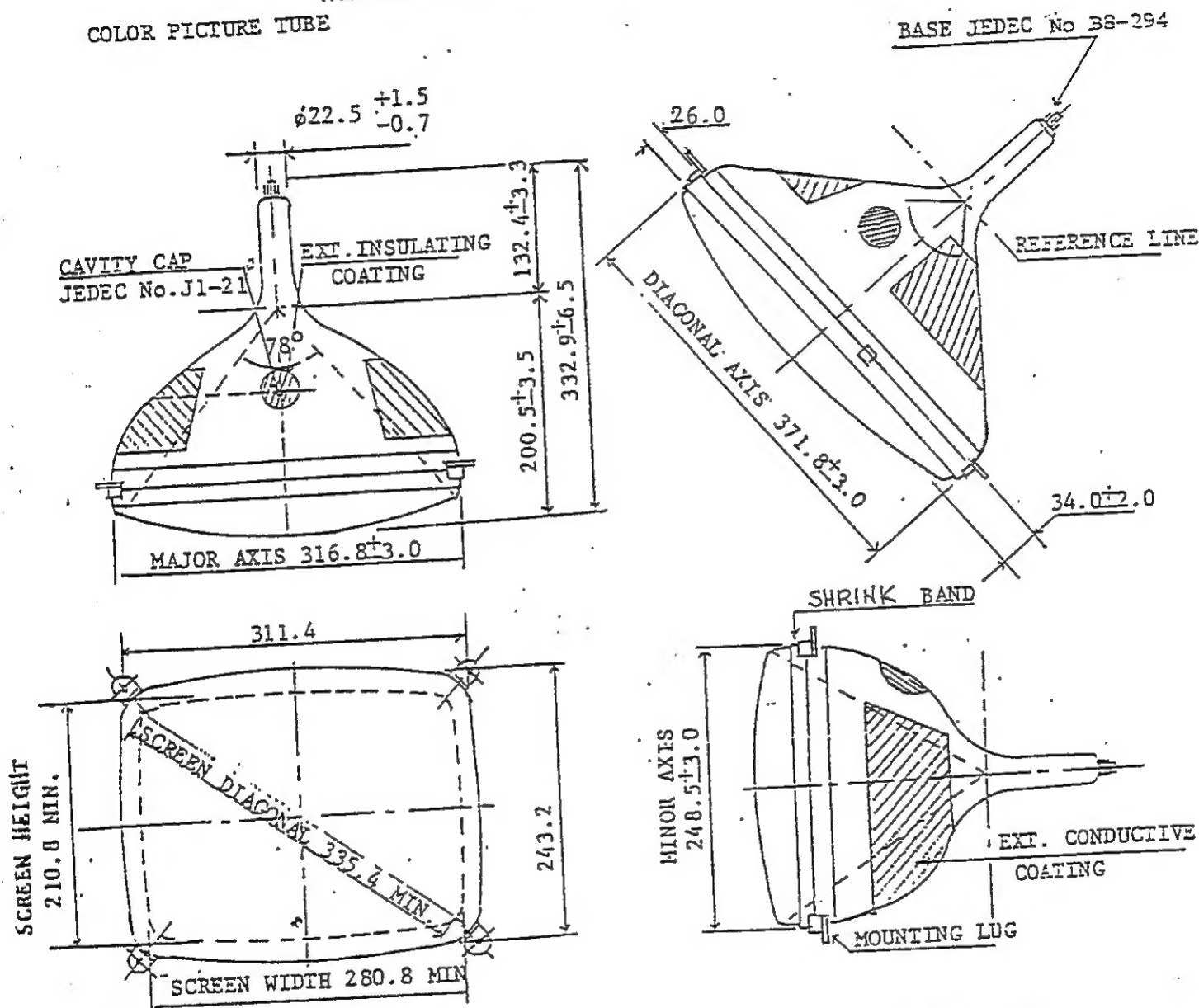


中華映管股份有限公司

CHUNGHWA PICTURE TUBES, LTD.

1127, HOPIN ROAD, DANAN VILLAGE, PADEH HSIANG CABLE ADDRESS: CPTTYTAI
TAOYUAN, TAIWAN, REPUBLIC OF CHINA TEL: (03) 3615151~615159 (TAOYUAN)

COLOR PICTURE TUBE



Pin No.	Element
1	Grid No. 3
2	Omitted
3	Cathode of Blue Gun
4	Heater
5	Heater
6	Grid No. 1
7	Cathode of Red Gun
8	Grid No. 2
9	Cathode of Green Gun
10	Omitted

Base Specifications (Bottom View of Base)

RESERVATION/RESIGNATION FORMAT
COLOR TV PICTURE TUBE TYPE NO. A 34 A6T 11 X

Sponsor **CHUNGWA**

General

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Complete items in Section VIII only if product is integral tube/yoke combination.

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- D. Neck Diameter * 22.5 mm.
- E. Screen Structure * line.
- F. TV-Line System (525 , 625 , etc.) * 525/625
- G. Deflection Yoke Design , nonintegral
(yoke manufacturer's
model number) nonintegral .
- H. Integral (integral or external)
Magnetic Shield (Yes or No) * Yes (integral)

II. Optical Data

- A. Light Transmittance of Panel * 57 % .
 - 1. Selective Absorption (yes or no) * no .
- B. Antireflection (yes or no) * no .
- C. Phosphor Sequence or Orientation * R,G,B.
- D. Dark Surround or Matrix (yes or no) * yes .
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Phosphor (yes or no) * yes (pigmented) .

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- D. Base and Pin Connections
(agency designation) * BB-294
- E. Pin Position Alignment (Base pin
which most nearly aligns with
anode bulb contact) * No. 9 .
- F. Anode Location (clock position,
viewed from base) * 12 o'clock .
- G. External Conductive Coating-
to-Anode Capacitance ,
including implosion * [1400 max. pF
protection hardware * [800 min. pF
- H. Dimensional Details (see Tube Outline)

IV. Implosion Protection

- A. Implosion Protection May Be
Listed as One of the Following : 6
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 - 3. Filled rim
 - 4. Rimband(s) and tension band(s)
 - 5. Bonded Sheets
 - 6. Other : Shrink Band
- B. Greatest Tube Face Axes Dimensions ,
including implosion protection hardware
and excluding mounting lugs , if any
 - 1. Diagonal * 371.8 mm
 - 2. Horizontal * 316.8 mm
 - 3. Vertical * 248.5 mm
- C. Integral Mounting system (yes or no) * yes
 - 1. Mounting hole centre-
to-centre dimensions
(horizontal X vertical) * 303.3 X 234 mm
 - 2. Panel reference Z point to front of lug
dimension (Z points are normally
at the ends of the minimum
screen diagonals) * 20.8 mm
If Z point is not at screen diagonal
X coordinate _____ mm
Y coordinate _____ mm
 - 3. Hole dimension (minimum) * $\phi 18$ mm

V. X-Radiation Characteristics
Per Latest Issue of (EIA Publication TEP-94,
EIA Standards RS-501 and RS-503, or
IEC Publication 65, or EIAJ Publication ET-1012)

A. Isoexposure-Rate Limit Curves

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F. Control Voltages for Visual Cutoff of

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2. Red/green

- a. Minimum * 0.4
- b. Typical * 0.6
- c. Maximum * 0.95

3. Blue/green

- a. Minimum _____
- b. Typical _____
- c. Maximum _____

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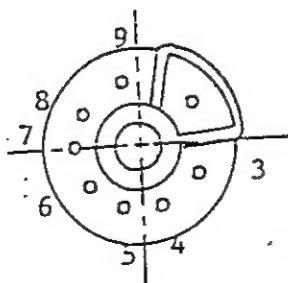
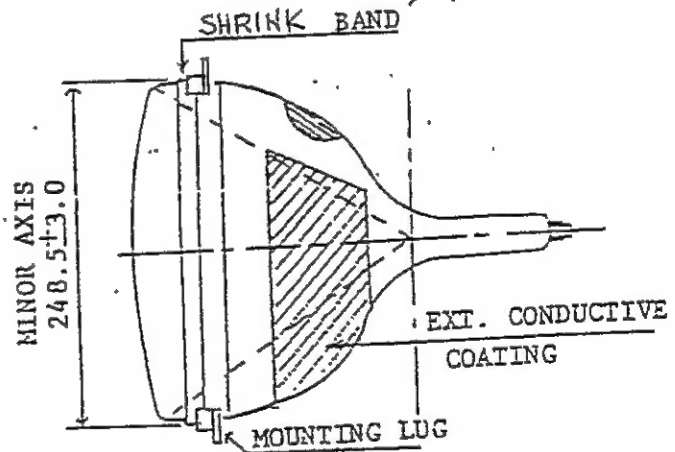
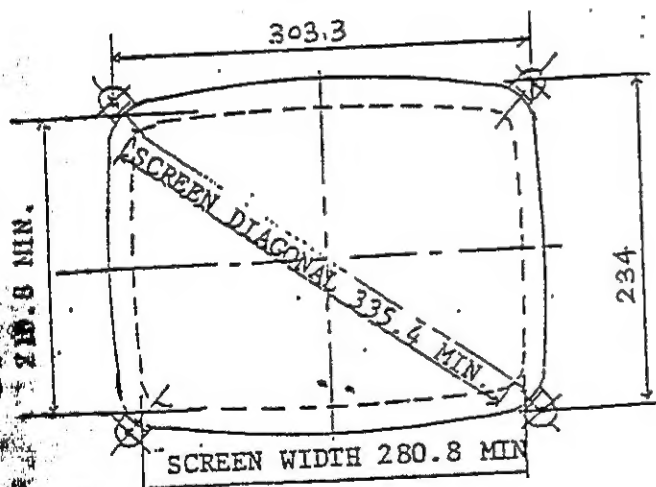
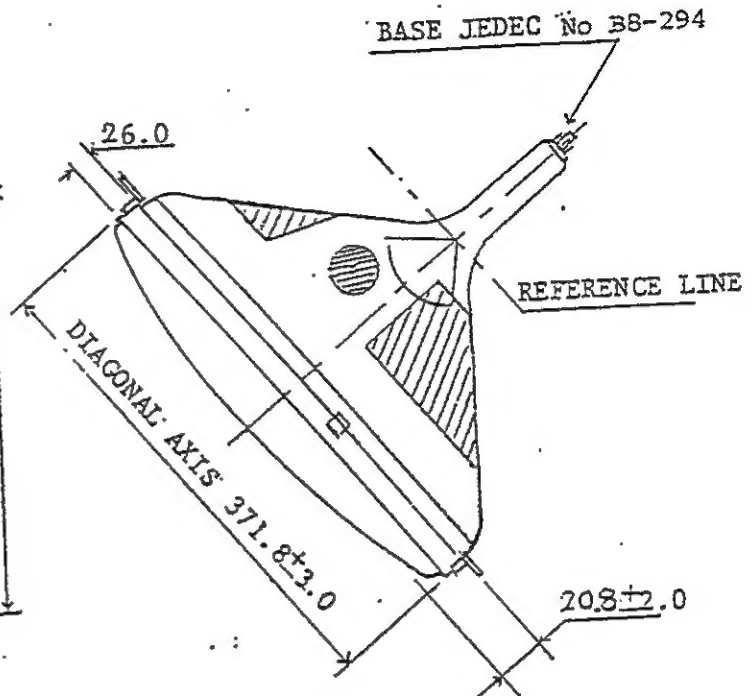
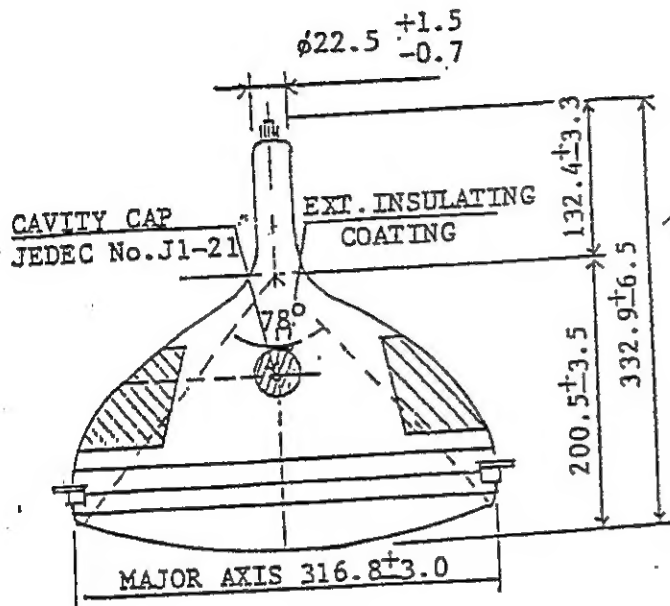
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